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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/650,984	50,984 08/30/2000		Martin Joseph Kaplan	1156a	1263
28004	7590	07/13/2004		EXAMINER	
SPRINT			WÓNG, BLANCHE		
6391 SPRINT PARKWAY KSOPHT0101-Z2100				ART UNIT	PAPER NUMBER
	OVERLAND PARK, KS 66251-2100			2667	0
				DATE MAILED: 07/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
. Office Action Summary		09/650,984	KAPLAN ET AL.				
		Examiner					
	•		Art Unit				
	The MAILING DATE of this communication app	Blanche Wong pears on the cover sheet with	the correspondence address				
Period for Reply							
THE - Externanter - If the - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS, cause the application to become ABANI	be timely filed D) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 22 J	une 2004.					
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b) This action is non-final.						
3)□	<u></u>						
Dispositi	on of Claims						
- 4)⊠	Claim(s) 1-26 is/are pending in the application	_					
·-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	5)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)	The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
_	te of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)				
2) Notice	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	5) Notice of Infor 6) Other:	mai Fatent Application (PTO-152)				
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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1,7-9,11-12,14,20-22,24-25 are rejected under 35 U.S.C. 102(e) as being clear anticipated by Naboulsi et al. (U.S. Pat No. 5,805,591).

With regard to claims 1 and 14, Naboulsi discloses a user communication hub 26 (subscriber network interface) for providing communication services to an end user (multiple end users can be seen in Fig. 1) at a user location 24 (subscriber premise location), wherein the user communication hub 26 (subscriber network interface) comprises: a plurality of communication interfaces 62,64,66,68 (respective subscriber service modules) that are operational to

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communicate with a plurality of end-user communication devices 72,74,76,78,80 (explained in col. 6, In. 31-63) that are located at the user location 24 (subscriber premise location) and that use a plurality of communications formats col. 6, In. 54-59 (processing incoming and outgoing ATM cells in conformance with various standards), wherein the communication interfaces 62,64,66,68 (respective subscriber service modules) are operational to convert col. 6, In. 54-59 (processing incoming and outgoing ATM cells in conformance with various standards) between the communications formats and an ATM format, wherein at least one of the communication interfaces 62,64,66,68 (respective subscriber service modules) comprises an analog telephony interface 87,89 (POTS telephone line cards) that is operational to convert col. 6, In. 54-59 (processing incoming and outgoing ATM cells in conformance with various standards) between the analog telephony format and the ATM format; a DSL interface 68 (telephone interface is within the subscriber network interface 26 that is connected to an external system by respective drop cable 25) that is coupled to the communications interfaces 62,64,66,68 (respective subscriber service modules) and a communication system Figs. 1,2 and that is operational to communicate col. 6, In. 54-59 (processing incoming and outgoing ATM cells in conformance with various standards) with the communications system using an ATM over DSL format.

With regard to claims 7-9 and 20-22, Naboulsi discloses one of the communication interfaces 62,64,66,68 (respective subscriber service modules) that comprises a computer interface 64 (PC LAN connection) operational to

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convert between a computer format and the ATM format and an Ethernet interface 74 (see also col. 6, In. 35-36, Ethernet connection), and that is operational to route a communication request from a computer to a service node in the communication system Figs. 1,2.

With regard to claims 11-12 and 24-25, Naboulsi discloses one of the communication interfaces 62,64,66,68 (respective subscriber service modules) that comprises an ATM interface operational to exchange ATM signaling col. 6, ln. 54-59 (processing incoming and outgoing ATM cells in conformance with various standards) between the end-user communication devices 72,74,76,78,80 (explained in col. 6, ln. 31-63) and the communication system Fig. 1, and a MPEG interface 62 that is operational to provide video signal col. 6, ln. 32-33 (video transmission) to the end-user communication device 72 (see also col. 6, ln. 34-35) from the ATM format.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2-13 and 15-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naboulsi and Focsaneanu et al. (U.S. Pat No. 5,610,910).

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With regard to claims 2-13 and 15-26, Naboulsi discloses the user communication hub of claim 1 and the method of claim 14.

With regard to claims 2-4 and 15-17, Naboulsi fails to show in the user communication hub and method, an analog telephony interface that is operational to detect on-hook and off-hook conditions, as recited in claims 2 and 15; and to detect dual tone multi-frequency tones, as recited in claims 3 and 16; and to provide echo cancellation, as recited in claims 4 and 17. In an analogous art, Focsaneanu discloses in Fig. 15-17 wherein the analog telephony interface is operational to provide dial tone (see col. 10, ln. 10-15) and power to the telephone and detect on-hook and off-hook conditions (see col. 1, ln. 46-50.), and detect DTMF tones (see col. 10, ln. 10-15). At time of the invention, it would have been obvious to a person of ordinary skill in the art to modify an analog telephony interface such as that in Naboulsi to include detection for on-hook and off-hook conditions, detection for dual tone multi-frequency tones, and echo cancellation, such as those features taught in Focsaneanu, in order to provide better utilization of CPE. Focsaneanu, col. 4, ln. 11-12.

With regard to claims 5 and 18, Naboulsi fails to show in the user communication hub and method, an analog telephony interface that is operational to provide echo cancellation, as recited in claims 5 and 18. Providing echo cancellation is a desirable quality of service (QoS) and is inherent in many communication systems today. (See also Focsaneanu, col. 10, ln. 20-25 and col. 11, ln. 7-16)

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With regard to claims 6 and 19, Naboulsi fails to show in the user communication hub and method, an analog telephony interface that is operational to forward control information to a service node in the communication system, as recited in claims 6 and 19. In an analogous art, Focsaneanu also discloses in Fig. 7-15 wherein the analog telephony interface is operational to forward control information to a service node 200 (service provider) in the communication system.

With regard to claims 7-9 and 20-22, Focsaneanu also discloses a computer interface 232 (modem) operational to convert between a computer format and the ATM format Fig. 8, 12-15 (Data Network) (See also col. 7, 15-50, "The data switched networks may include, among other networks, . . . an ATM network"), wherein the computer interface comprises an ethernet internet (See also col. 7, 15-50, "The data switched networks may include, among other networks, . . . TCP/IP") and operational to route a communication request col. 7, In. 39 from a computer to a service node 200 (service provider) in the communication system.

Regarding claims 10-13 and 23-26, a Java interface, an ATM interface, a MPEG interface, and an utility interface are outstanding interfaces in any communication system today. Java is an object-oriented programming language and the characteristic of Java makes it a useful language for programming Web application, according to Microsoft Computer Dictionary, 5th Ed. It is inherent that nowadays, web server such as the one 604 in Fig. 6 of Focsaneanu, will include a Java interface. Moreover, video and net conferencing are inevitable over the

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Internet given the current state of globalization, so the capability to handle video signals and a MPEG interface are not foreign, and as a matter of fact, very doable. It is only natural to include an utility interface in an accounting element in the performance manager 603 to collect and forward metering information. The push for broadband, including an ATM interface, is just a consequence of all these information processing.

Response to Arguments

3. Applicant's arguments filed June 22, 2004 have been fully considered but they are not persuasive.

On p.3, In. 3-4, Applicant argues that in Naboulsi, the communications between the hub and the system uses a coaxial cable and coaxial cables are separate systems connected to households and are independent of phone distribution systems. On p.3, In. 6-8, Applicant further argues that the current invention enables phone distribution system to service without additional connection to the household. However, claim language does not differentiate between invention and Naboulsi's interface. Neither claim 1 nor 14 recites the unity with a phone distribution system as argued by the Applicant.

Claim 1 only recites "a DSL interface that is coupled to the communication interface and a communication system and that is operational to communicates with the communications system using an ATM over DSL format." Naboulsi shows an interface 26 wherein the telecommunications module 68 supports telephone lines col. 6, In. 41-44. Naboulsi meets the limitation of an interface

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that is coupled to the communication interface and a communication system in claim 1 because the Naboulsi telecommunications module 68 is coupled to an interface 26 connects to an external system by respective drop cable 25.

Additionally, each of the respective subscriber service modules 62,64,66,68 receives digital information in ATM cells col. 6, In. 45-51. In the art, DSL is a generic name for a family of digital lines to local subscribers. Newton's Telecom Dictionary, 19th ed. A DSL format is not defined in the claim. By this definition, Naboulsi satisfies the limitations of a DSL interface and operational using ATM over DSL format in claim 1 because the coaxial cable conveys digital data and thus is a DSL/digital line. Therefore, Applicant's argument is not persuasive because there is no structural definition in claim 1 between the claimed DSL interface and Naboulsi.

- 4. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., coaxial cables) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire

THREE MONTHS from the mailing date of this action. In the event a first reply is

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filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 703-305-8963. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H Pham can be reached on 703-305-4378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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July 6, 2004

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